



UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sanford Cobb, Jr.  
Serial No. : 10/616,529  
Filed : July 10, 2003  
Title : TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Art Unit : Unknown  
Examiner : Unknown

**MAIL STOP PETITIONS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

PETITION TO GRANT FILING DATE

In a Notice of Incomplete Reissue Application mailed 7/13/2004, the Office refused to accord the above-captioned reissue application a filing date on the ground that the application, as filed, was incomplete. In particular, the office alleges that (1) the specification was missing, (b) the specification failed to include at least one claim, and (c) the drawings were missing. The Notice was mailed more than 1 year after Applicant filed the application.

The Office erred in issuing the Notice because the application, as filed, was indeed complete and included all of the items the Office alleges were missing. As proof, we enclose copies of the documents that were filed on July 10, 2003, along with the stamped return receipt postcard and Express Mail Declaration. The postcard lists all of the documents that were filed, including the specification, claims, and drawings.

The stamped postcard proves that Applicant included all of the requisite documents in its papers filed on 7/10/2003, which is over a year prior to the date of the Notice. Accordingly, Applicant requests that the Office withdraw the Notice and accord the application a filing date.

Please charge any petition fee which may be due to Deposit Account No. 06-1050. Because the application was in fact complete as filed, and the Office erred in issuing the Notice, Applicant requests a refund of any petition fee charged to Deposit Account No. 06-1050.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

August 20, 2004

Signature

Judith A. Witzel

Typed or Printed Name of Person Signing Certificate

Applicant : Sanford Cobb, Jr.  
Serial No. : 10/616,529  
Filed : July 10, 2003  
Page : 2 of 2

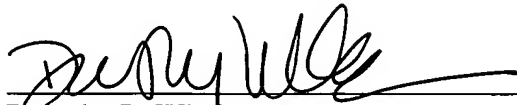
Attorney's Docket No.: 15518-001001 / 40738US028

Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: \_\_\_\_\_

8/20/04



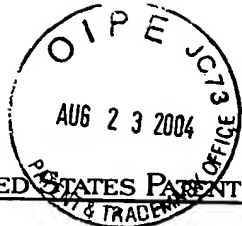
Dorothy P. Whelan  
Reg. No. 33,814

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696

60239360.doc



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (e) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/616,529	07/10/2003	Sanford Cobb	15518-001001

26191  
FISH & RICHARDSON P.C.  
3300 DAIN RAUSCHER PLAZA  
60 SOUTH SIXTH STREET  
MINNEAPOLIS, MN 55402

CONFIRMATION NO. 1947

FORMALITIES LETTER



\*OC000000013224542\*

Date Mailed: 07/13/2004

## NOTICE OF INCOMPLETE REISSUE APPLICATION

### FILED UNDER 37 CFR 1.53(b)

A filing date has NOT been accorded to the above identified application papers for the reason(s) indicated below.

All of the items noted below **and a newly executed oath or declaration covering the items must** be submitted within **TWO MONTHS** of the date of this Notice, unless otherwise indicated, or proceedings on the application will be terminated (37 CFR 1.53(e)).

The filing date will be the date of receipt of all items required below, unless otherwise indicated. Any assertions that the item(s) required below were submitted, or are not necessary for a filing date, must be by way of petition directed to the attention of the Office of Petitions accompanied by the \$130.00 petition fee (37 CFR 1.17(h)). If the petition states that the application is entitled to a filing date, a request for a refund of the petition fee may be included in the petition.

- The specification is missing.
- The specification does not include at least one claim.  
*A complete specification as prescribed by 35 U.S.C. 112 is required.*
- The application was deposited without drawings. 35 U.S.C. 113 (first sentence) requires a drawing "where necessary for the understanding of the subject matter sought to be patented." *Applicant should reconsider whether the drawings are necessary under 35 U.S.C. 113 (first sentence).*

Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

**Nathaniel R. Hauden**

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



EV 342625306 US



UNITED STATES POSTAL SERVICE®

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Date In Mo. <b>7</b> Day <b>10</b> Year <b>3</b>	<input checked="" type="checkbox"/> 12 Noon <input type="checkbox"/> 3 PM	Postage <b>\$ 27.30</b>
Time In <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM <b>6:01</b>	Military <input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	Return Receipt Fee
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Mo. Day	<input type="checkbox"/> AM <input type="checkbox"/> PM	
Delivery Date	Time	Employee Signature
Mo. Day	<input type="checkbox"/> AM <input type="checkbox"/> PM	
<input type="checkbox"/> <b>WAIVER OF SIGNATURE (Domestic Only)</b> Additional merchandise insurance is void if waiver of signature is requested. I wish delivery to be made without obtaining signature of addressee or addressee's agent (if delivery employee judges that article can be left in secure location) and I authorize that delivery employee's signature constitutes valid proof of delivery.		
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**FROM: (PLEASE PRINT)**

PHONE ( )

FISH & RICHARDSON  
60 S 6TH ST STE 3300  
MINNEAPOLIS MN 55402-4403  
USA

15518/001001 (DPW/NYW)

**TO: (PLEASE PRINT)**

PHONE ( )

COMMISSIONER FOR PATENTS  
PO BOX 1450  
ALEXANDRIA VA 22313-1450

Mail Stop Reissue Appln.

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PATENT  
Attorney's Docket No.: 15518-001001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sanford Cobb, Jr.  
Serial No.:  
Filed:  
Title TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

DECLARATION OF MAILING BY "EXPRESS MAIL"

Antjuan Alexander declares as follows:

1. I reside at:

3043 14th Ave S.  
Minneapolis, MN 55407

EV342625306US

and am an employee of:

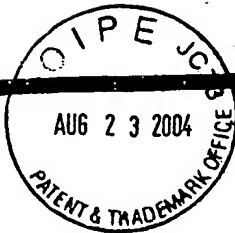
Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402

2. On July 10, 2003, I deposited in the mail, "Express Mail Post Office to Addressee" service of the United States Postal Service, the contents of the envelope for which "Express Mail" receipt No. EV342625306US was issued addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

3. Attached hereto is a true copy of the "Express Mail" receipt No. EV342625306US.


I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the above-identified application or any patents issued thereon.

Date: July 10, 2003



DPW

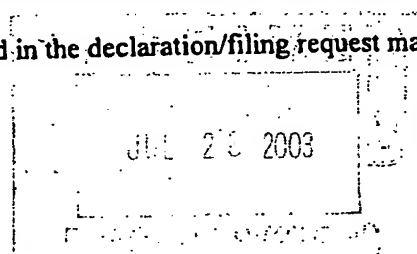
### OFFICIAL FILING RECEIPT CHECKLIST

Attorney's Docket No. 15518-001001	Express Mail Label No. EV342625306US	Mailing Date July 10, 2003	<i>For PTO Use Only</i> <i>Do Not Mark in This Area</i>
Application No.	Filing Date July 10, 2003	Attorney/Secretary Init DPW/jxw	
Title of the Invention TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM			
Applicant Sanford Cobb, Jr.			22002 U.S. PTO 10/616529
Enclosures · Reissue Patent Application Transmittal (1 pages) · Reissue Application Fee Transmittal Form (1 sheet) · Patent Application (3 pages of specification, 6 pages of claims, 76 total claims, 1 pages of abstract) · Drawings (4 sheets) · Consent of Assignee and Offer to Surrender (1 pages) · Declaration Pursuant to 37 CFR § 1.175 (2 pages) · Certificate Under 37 CFR § 3.73(b) (copy of Assign Record.) · Information Disclosure Statement (3 pages) · Form PTO-1449 (2 pages) · Documents listed on the Form PTO-1449 (43 documents) · Check in the amount of \$1,758.00			 07/10/03

### TO BE COMPLETED WHEN OFFICIAL FILING RECEIPT ARRIVES

- ( ) Serial numbers on the postcard and the filing receipt match
- ( ) Filing dates on the postcard and filing receipt match
- ( ) Filing fee (paid by check) and the filing fee received on the filing receipt match. If the filing fee was charged to the deposit account, the correct amount of the fee charged match
- ( ) Attorney docket number on the postcard, the application and the filing receipt match
- ( ) Number of sheets of drawings in the application, number noted on the postcard, and number noted on the filing receipt match
- ( ) Total number of claims in the application noted in the transmittal letter and on the filing receipt match
- ( ) Number of Independent claims in the application, noted in the transmittal letter, and on the postcard match
- ( ) Attorney named on the filing receipt and attorney named on the declaration/filing request match
- ( ) Inventor(s) named on the filing receipt and inventor(s) named in the declaration/filing request match
- ( ) Title noted on filing receipt and on the application match

CHECKED BY: \_\_\_\_\_





Attn: 15518-001001	Docket No. EV342625306US	Express Mail Label No. July 10, 2003	<b>For PTO Use Only</b> Do Not Mark in This Area
Application No.	Filing Date July 10, 2003	Attorney/Secretary Init DPW/jxw	
Title of the Invention TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM			
Applicant Sanford Cobb, Jr.			
Enclosures · Reissue Patent Application Transmittal (1 pages) · Reissue Application Fee Transmittal Form (1 sheet) · Patent Application (3 pages of specification, 6 pages of claims, 76 total claims, 1 pages of abstract) · Drawings (4 sheets) · Consent of Assignee and Offer to Surrender (1 pages) · Declaration Pursuant to 37 CFR § 1.175 (2 pages) · Certificate Under 37 CFR § 3.73(b) (copy of Assign Record.) · Information Disclosure Statement (3 pages) · Form PTO-1449 (2 pages) · Documents listed on the Form PTO-1449 (43 documents) Check in the amount of \$1,758.00			

15518-001001

FR FISH &amp; RICHARDSON P.C.

225 Franklin Street  
Boston, Massachusetts  
02110-2804

C

162676

PAY one thousand seven hundred fifty-eight and 00/100 DOLLARS

TO THE ORDER OF	DATE	AMOUNT
COMMISSIONER OF PATENTS AND TRADEMARKS	7/9/03	1758.00

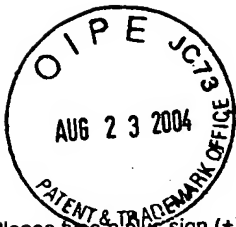
FISH &amp; RICHARDSON P.C.

52-153/112

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PTO/SB/50 (02-01)

Approved for use through 9/30/2000. OMB 0651-0033

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## REISSUE PATENT APPLICATION TRANSMITTAL

Address to: <b>Assistant Commissioner for Patents Box Reissue Washington, DC 20231</b>	Attorney Docket No.	15518-001001
	First Named Inventor	Sanford Cobb, Jr.
	Original Patent Number	4,906,070
	Original Patent Issue Date	March 6, 1990
	Express Mail Label No.	EV342625306US

### APPLICATION FOR REISSUE OF:

(check applicable box)

☒ Utility Patent

☐ Design Patent

☐ Plant Patent

#### APPLICATION ELEMENTS (37 CFR 1.173)

1. ☒ Fee Transmittal Form (PTO/SB/56)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status. See 37 CFR 1.27.
3. ☒ Specification and Claims in double column copy of patent format (amended, if appropriate)
4. ☒ Drawing(s) (Proposed amendments, if appropriate)
5. ☒ Reissue Oath/Declaration (original or copy)  
(37 C.F.R. § 1.175) (PTO/SB/51 or 52)
6. ☒ Power of Attorney
7. Original U.S. Patent currently assigned? ☒ Yes ☐ No  
(If Yes, check applicable box(es))
  - ☒ Written Consent of all Assignees (PTO/SB/53)
  - ☒ 37 C.F.R. § 3.73(b) Statement (PTO/SB/96)
8. ☐ CD-ROM or CD-R in duplicate, Computer Program (Appendix) or large table
9. Nucleotide and/or Amino Acid Sequence Submission  
(If applicable, all of the following are necessary)
  - a. ☐ Computer Readable Form (CFR)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM (2 copies) or CD-R (2 copies) or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

#### ACCOMPANYING APPLICATION PARTS

10. ☐ Statement of status and support for all changes to the claims. See 37 CFR 1.173 (c)
11. ☐ Original U.S. Patent for surrender
  - ☐ Ribboned Original Patent Grant
  - ☐ Statement of Loss (PTO/SB/55)
12. ☐ Foreign Priority Claim (35 U.S.C. 119) (if applicable)
13. ☒ Information Disclosure Statement (DS)/PTO-1449 ☒ Copies of IDS Citations
14. ☐ English Translation of Reissue Oath/Declaration (if applicable)
15. ☐ Preliminary Amendment
16. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
17. ☐ Other: \_\_\_\_\_

### 18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



or ☐ Correspondence address below

Customer No: 26191

(Insert Customer No. or Attach bar code label here)

Name	Dorothy P. Whelan				
Address					
City	State	Zip Code			
Country	U.S.A.	Telephone	(612) 335-5070	Fax	(612) 288-9696

NAME (Print/Type)	Fish & Richardson P.C., P.A.	Registration No. (Attorney/Agent)	33,814
Signature		Date	7/10/03

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231

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<b>REISSUE APPLICATION FEE TRANSMITTAL FORM</b>						Docket Number (Optional) <b>15518-001001</b>		
<b>Claims as Filed – Part 1</b>								
Claims in Patent	Number Filed in Reissue Application	(3) Number Extra	Small Entity		Other than a Small Entity			
			Rate	Fee	Rate	Fee		
(A) 13 (C) 3	Total Claims (37 CFR 1.16(j)) Independent claims (37 CFR 1.16(i)) (B) 76 (D) 3	.... 56 = * 0 =	x \$ _____ = x \$ _____ =		or	x \$18 = x \$ _____ =	\$1,008 0	
			Basic Fee (37 CFR 1.16(h)) \$ _____					\$ 750
			Total Filing Fee \$ _____		OR			\$ 1,758
<b>Claims as Amended – Part 2</b>								
	(1) Claims Remaining After Amendment	MINUS	(2) Highest Number Previously Paid For	(3) Extra Claims Present	Small Entity		Other than a Small Entity	
					Rate	Fee	Rate	Fee
Total Claims (37 CFR 1.16(j))	***	MINUS	**	* =	x \$ _____ =		x \$ _____ =	
Independent Claims (37 CFR 1.16(i))	***	MINUS	*****	=	x \$ _____ =		x \$ _____ =	
					Total Additional Fee \$ _____		OR \$ _____	
<p>* If the entry in (D) is less than the entry in (C), Write "0" in column 3.</p> <p>** If the "Highest Number of Total Claims Previously Paid For" is less than 20, Write "20" in this space.</p> <p>*** After any cancellation of claims.</p> <p>**** If "A" is greater than 20, use (B – A); if "A" is 20 or less, use (B – 20).</p> <p>***** "Highest Number of Independent Claims Previously Paid For" or Number of Independent Claims in Patent (C).</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p><input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____. A duplicate copy of this sheet is enclosed.</p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. <u>06-1050</u>. A duplicate copy of this sheet is enclosed.</p> <p><input checked="" type="checkbox"/> A check in the amount of \$ <u>1,758.00</u> to cover the filing/additional fee is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p style="text-align: center;"><b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p><u>July 10, 2003</u> Date</p> <p><u>33,814</u> Registration Number, if applicable</p> </div> <div style="width: 45%; text-align: right;"> <p>Signature of Applicant, Attorney or Agent of Record</p> <p><u>Dorothy P. Whelan</u> Typed or printed name</p> </div> </div>								

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Attorney's Docket No.: 15518-001001

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee : Minnesota Mining and  
Manufacturing Company

Art Unit : Unknown

Examiner : Unknown

Patent No. : 4,906,070

Serial No. : 218,087

Filed : July 12, 1988

Title : TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Commissioner for Patents  
Washington, D.C. 20231

DECLARATION PURSUANT TO 37 C.F.R. §1.175

I, Sanford Cobb, Jr., declare that I believe that I am the original and first inventor of the subject matter that is described and claimed in United States Patent No. 4,906,070 for which I solicit a reissue patent; that I have reviewed and understand the contents of the above-identified reissue application, including its specification and claims; that I acknowledge the duty to disclose all information of which I am aware that is material to the examination of this reissue application in accordance with 37 C.F.R. §1.56(a); that the aforesaid patent is partly inoperative by reason of claiming less than I had the right to claim in the patent; and that said inoperativeness is a result of error that arose inadvertently and without any deceptive intention.

One error relied upon as the basis of this reissue application is that the patent fails to claim, in the form of dependent claims, certain embodiments disclosed in the specification that fall within the genus set forth in the independent claims. For example, although the specification discloses, by means of certain patents incorporated by reference, films having a composite structure in which prisms are bonded to a separate sheet material, the patent fails to include specific claims to such films. This error and any and all other errors being corrected in the reissue application arose without deceptive intention.

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV342625306US

July 10, 2003  
Date of Deposit

Patentee : Minnesota Mining and Manufacturing Company  
Patent No. : 4,906,070  
Serial No. : 218,087  
Filed : July 12, 1988  
Page : 2 of 2

Attorney's Docket No.: 15518-001001

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Dorothy P. Whelan, Reg. No. 33,814  
John J. Gagel, Reg. No. 33,499  
Practitioners at Customer Number 36001.


Please address all communications to:

Dorothy P. Whelan, Esq.  
Fish & Richardson, P.C. P.A.  
60 S. Sixth St., Suite 3300  
Minneapolis, MN 55402

Please address all telephone calls to:

Dorothy P. Whelan, Esq.  
(612) 337-2509

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believe to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patents issued thereon.

  
Sanford Cobb, Jr.

Residence and Post 2170 Itasca Ave. S., P.O. Box302, Lakeland, MN 55043  
Office Address: 2170

Citizenship:

United States

Date: June 16, 2003



Attorney's Docket No.: 15518-001001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee : Minnesota Mining and  
Manufacturing Company

Art Unit : Unknown  
Examiner : Unknown

Patent No. : 4,906,070

Serial No. : 218,087

Filed : July 12, 1988

Title : TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Commissioner for Patents  
Washington, D.C. 20231

CONSENT OF ASSIGNEE AND OFFER TO SURRENDER

The undersigned, 3M Innovative Properties Company, being the assignee of all right, title, and interest in and to the above-referenced U.S. Patent No. 4,906,070 by virtue of an assignment from Minnesota Mining and Manufacturing Company, the prior assignee of all right, title, and interest in and to the above-referenced U.S. Patent No. 4,906,070 by virtue of assignments from Sanford Cobb, Jr., the inventor of the above-referenced U.S. Patent No. 4,906,070, to Minnesota Mining and Manufacturing Company recorded (a) November 21, 1985 at Reel 4485, Frame 0413 and (b) January 15, 1986 at Reel 4504, Frame 0236, hereby offers to surrender U.S. Patent No. 4,906,070 and further requests that Letters Patent be reissued to it upon the foregoing amended application.

3M Innovative Properties Company

Date: July 3, 2003

By: [Signature]

Name: Gary L. Griswold

Title: President

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV342625306US

Date of Deposit July 10, 2003



Attorney's Docket No.: 15518-001001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee : Minnesota Mining and Manufacturing Company  
Art Unit : Unknown  
Examiner : Unknown  
Patent No. : 4,906,070  
Serial No. : 218,087  
Filed : July 12, 1988  
Title : TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Commissioner for Patents  
Washington, D.C. 20231

CERTIFICATE UNDER 37 CFR §3.73(b)

Under 37 CFR §3.73(b), 3M Innovative Properties Company, a corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of:

A chain of title from the inventor of the patent identified above, to the current assignee as shown below.

1. From Sanford Cobb, Jr. to Minnesota Mining and Manufacturing Company recorded in the Patent and Trademark Office at Reel 4485, Frame 0413 on November 21, 1985.
2. From Sanford Cobb, Jr. to Minnesota Mining and Manufacturing Company recorded in the Patent and Trademark Office at Reel 4504, Frame 0236 on January 15, 1986.
3. From Minnesota Mining and Manufacturing Company to 3M Innovative Properties Company and submitted under separate cover for recordation with the Patent and Trademark Office on May 28, 2003 (copy attached as Exhibit 1).

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV342625306US

July 10, 2003  
Date of Deposit

Patentee : Minnesota Mining and Manufacturing Company  
Patent No. : 4,906,070  
Serial No. : 218,087  
Filed : July 12, 1988  
Page : 2 of 2

Attorney's Docket No.: 15518-001001

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

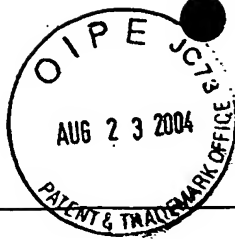
The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

3M Innovative Properties Company

Date: July 3, 2003

By: [Signature]  
Name: Gary L. Griswold  
Title: President



RECORDATION FORM COVER SHEET  
PATENTS ONLY

To: The Honorable Commissioner of Patents and Trademarks  
Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies) (Execution Date)

3M Company (formerly Minnesota  
Mining and Manufacturing Company),  
a Corporation of the State of Delaware

May 20, 2003

Additional names of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other:

☐ If this is a request for correction of a previously recorded document, a copy of the  
previously recorded assignment and previous Notice of Recordation is enclosed.

Name and address of receiving party(ies):

3M Innovative Properties Company  
P.O. Box 33427  
St. Paul, Minnesota 55133-3427

Additional names of receiving party(ies) attached?

☐ Yes ☒ No

4. Application number or patent number:

☐ This document is being filed contemporaneously with a new patent application.

☒ This document is to be recorded against the following patent application or patent: 06/903657, 07/472621,  
07/218087

☐ Enter Patent Cooperation Treaty (PCT) application number only if a USSN has not been assigned:

Additional Numbers Attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: Stephen W. Buckingham  
Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Phone Number: (651) 733-3379



32692

PATENT TRADEMARK OFFICE

6. Total number of applications  
and patents involved: 3

7. Total fee (37 CFR 3.41): \$120.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit Account Number: 13-3723

DO NOT USE THIS SPACE

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the  
original document. Charges to deposit account are authorized, as indicated herein.

Printed Name of

Attorney/Agent: Stephen W.  
Buckingham

Registration No.: 30,035

Signature

Date

May 28, 2003

Pages: Total number of pages including COVER SHEET, attachments and documents

POSTED

JUN 04 2003

# ASSIGNMENT

ASSIGNOR: 3M COMPANY (formerly MINNESOTA MINING AND MANUFACTURING COMPANY)  
of: PO Box 33427  
St. Paul, Minnesota 55133-3427  
United States of America

a corporation organized and existing under the laws of the State of Delaware, United States of America does hereby claim and declare that it is the owner of all right, title and interest in and to the following Patent Application(s) or letters Patents(s) and other rights and powers obtainable or exercisable in respect thereof as numbered in United States Patent(s) and /or Patent Application(s):

Patent Application No.	Patent Number	Filing Date	Issue Date
06/903657	4805984	September 5, 1986	February 21, 1989
07/472621	5056892	January 30, 1990	October 15, 1991
07/218087	4906070	July 12, 1988	March 6, 1990

3M Company (formerly Minnesota Mining and Manufacturing Company) does hereby, for good and valuable consideration, effective as of April 1, 1999, received, sell, assign and transfer unto:

ASSIGNEE: 3M INNOVATIVE PROPERTIES COMPANY  
of: PO Box 33427  
St. Paul, Minnesota 55133-3427  
United States of America

a corporation organized and existing under the laws of the State of Delaware, United States of America, its entire right, title and interest in and to the said Patent Application(s) or Letters Patent(s) including any division, continuation (in whole or in part) reissue or reexamination thereof, and in and to any countries foreign thereto, and consent to the recordal of this Assignment.

ASSIGNOR  
Subscribed and Sworn:

At St. Paul, Minnesota 55133-3427

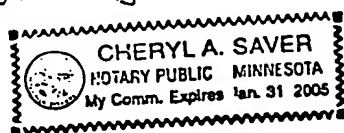
this 20<sup>th</sup> day of May, 2003 3M COMPANY  
(formerly MINNESOTA MINING AND  
MANUFACTURING COMPANY)

By: Carolyn A. Bates  
Name: Carolyn A. Bates  
Its: Assistant Chief Intellectual Property  
Counsel

Subscribed and sworn to before me this

20<sup>th</sup> day of May, 2003

Cheryl A. Saver  
Notary Public



ASSIGNEE  
Accepted:

At St. Paul, Minnesota 55133-3427

this 27<sup>th</sup> day of May, 2003

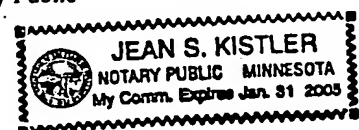
3M INNOVATIVE PROPERTIES COMPANY

By: Gary L. Griswold  
Name: Gary L. Griswold  
Its: President and Chief Intellectual Property  
Counsel

Subscribed and sworn to before me this

27<sup>th</sup> day of May, 2003

Jean S. Kistler  
Notary Public





Attorney's Docket No.: 15518-001001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee : Minnesota Mining and Manufacturing Company  
Art Unit : Unknown  
Examiner : Unknown  
Patent No. : 4,906,070  
Serial No. : 218,087  
Filed : July 12, 1988  
Title : TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits copies of the following documents listed on the attached Form 1449:

- (a) Agreement dated August 20, 1984 between Minnesota Mining and Manufacturing Company ("3M") and TIR Systems Limited ("the Agreement");
- (b) Memo dated 10/4/84 from S. Cobb to J.F. Abere;
- (c) Memo dated 10/26/84 from R. Appeldorn to R. Adalbert et al.;
- (d) Memo dated 11/12/84 from John C. Barnes to R.H. Appeldorn.

The subject matter of the Agreement is a thin, flexible, prism light guide material. The three memos relate to the material and to the Agreement.

Applicant further submits copies of the following patents listed on the attached Form 1449:

2,175,067 Rolph  
2,218,227 Winnek  
2,232,551 Merton  
2,248,638 Merton  
2,279,555 Browne et al.  
2,723,919 Pohnan  
3,288,990 Stahlhut  
3,689,346 Rowland  
3,894,228 Cobb, Jr.

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV342625306US

July 10, 2003  
Date of Deposit

Patentee : Minnesota Mining and Manufacturing Company  
Patent No. : 4,906,070  
Serial No. : 218,087  
Filed : July 12, 1988  
Page : 2 of 3

Attorney's Docket No.: 15518-001001

3,908,056 Anderson  
4,083,626 Miyahara et al.  
4,118,763 Osteen  
4,120,565 Rabl et al.  
4,154,219 Gupta et al.  
4,235,515 Sheiman et al.  
4,244,683 Rowland  
4,260,220 Whitehead  
4,389,085 Mori  
4,422,719 Orcutt  
4,466,697 Daniel  
4,497,860 Brady, Jr.  
4,576,850 Martens  
4,615,579 Whitehead  
4,805,984 Cobb  
0142250A3 Europe  
27-1880 Japan  
28-4669 Japan  
58-102904 Japan  
53-57068 Japan  
1426230 United Kingdom  
2127344 United Kingdom

Fumio Ide & Hiroshi Terada, "Kobunshi Shinsozai One Point-2, 'Optical Fiber & Optical Materials'", edited by Japan Polymer Society, published by Kyoritsu Shuppan K.K., June 15, 1987: pp.10-14.

"Polycarbonate Resin Handbook" edited by Seiichi Honma, published by Nikkkan Kogyo Shinbunsha on August 28, 1992, pp 121-125.

Translations for the following references will be provided shortly:

48-7051 Japan  
58-51144 Japan  
49-51857 Japan  
55-159304 Japan  
56-77805 Japan  
60-70603 Japan

Patentee : Minnesota Mining and Manufacturing Company  
Patent No. : 4,906,070  
Serial No. : 218,087  
Filed : July 12, 1988  
Page : 3 of 3

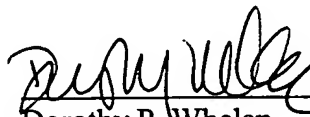
Attorney's Docket No.: 15518-001001

This statement is being filed with the application. Please apply any charges or credits to  
Deposit Account No. 06-1050.

Respectfully submitted,

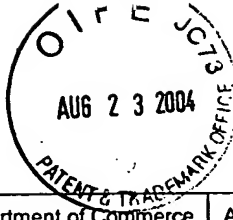
Date: \_\_\_\_\_

2/10/03



Dorothy P. Whelan  
Reg. No. 33,814

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696  
60136808.doc



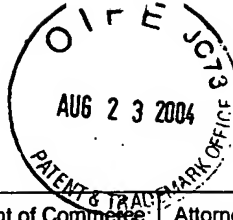
Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>15518-001001</b>	Application No.
	Applicant <b>Sanford Cobb, Jr.</b>		
	Filing Date	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2,175,067		Rolph			
	AB	2,218,227		Winnek			
	AC	2,232,551		Merton			
	AD	2,248,638		Merton			
	AE	2,279,555		Browne et al.			
	AF	2,723,919		Pohnan			
	AG	3,288,990		Stahlhut			
	AH	3,689,346		Rowland			
	AI	3,894,228		Cobb, Jr.			
	AJ	3,908,056		Anderson			
	AK	4,083,626		Miyahara et al.			
	AL	4,118,763		Osteen			
	AM	4,120,565		Rabl et al.			
	AN	4,154,219		Gupta et al.			
	AO	4,235,515		Sheiman et al.			
	AP	4,244,683		Rowland			
	AQ	4,260,220		Whitehead			
	AR	4,389,085		Mori			
	AS	4,422,719		Orcutt			
	AT	4,466,697		Daniel			
	AU	4,497,860		Brady			
	AV	4,576,850		Martens			
	AW	4,615,579		Whitehead			
	AX	4,805,984		Cobb			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>15518-001001</b>	Application No.
	Applicant <b>Sanford Cobb, Jr.</b>		
	Filing Date	Group Art Unit	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY	0 142 250		Europe				
	AZ	27-1880		Japan			X	
	AAA	28-4669		Japan			X	
	ABB	48-7051		Japan				X
	ACC	49-51857		Japan				X
	ADD	53-57068		Japan			X	
	AEE	55-159304		Japan				X
	AFF	56-77805		Japan				X
	AGG	58-102904		Japan			X	
	AHH	58-51144		Japan				X
	AII	60-70603		Japan				X
	AJJ	1,426,230		United Kingdom				
	AKK	2,127,344		United Kingdom				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ALL	Agreement dated August 20, 1984 between Minnesota Mining and Manufacturing Company ("3M") and TIR Systems Limited ("the Agreement")
	AMM	Memo dated 10/4/84 from S. Cobb to J.F. Abere
	ANN	Memo dated 10/26/84 from R. Appeldorn to R. Adalbert et al.
	AOO	Memo dated 11/12/84 from John C. Barnes to R.H. Appeldorn
	APP	Fumio Ide & Hiroshi Terada, "Kobunshi Shinsozai One Point-2, 'Optical Fiber & Optical Materials'"; edited by Japan Polymer Society, published by Kyoritsu Shuppan K.K. on June 15, 1987, pp. 10-14.
	AQQ	"Polycarbonate Resin Handbook", edited by Seiichi Honma, published by Nikkan Kogyo Shinbunsha on August 28, 1992, pp. 121-125.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	